

GENERAL NOTES TUF-1

DESIGN LOADS CODE

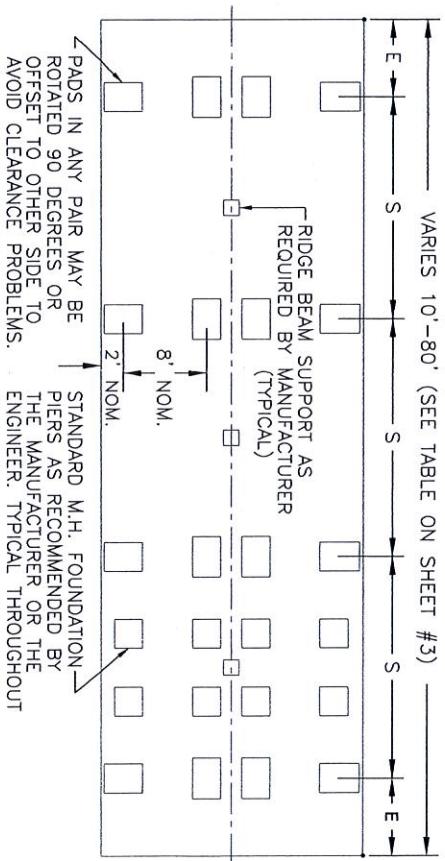
2013 CBC

LIVE LOAD - 30 PSF SNOW
FLOOR LIVE LOAD - 40 PSF
WIND - 100 MPH EXP. "C" DS
SEISMIC - $S_s=1.5$ $F_o=1.4$ $S=1.41$ SITE CLASS "D"

- THIS EARTHQUAKE BRACING SYSTEM IS DESIGNED TO BE CONSTRUCTED ON A FAIRLY LEVEL SITE WITH NO EXISTING SOIL PROBLEMS.
- CHASSIS BEAM SUPPORTS SHALL BE LOCATED AND SIZED FOR THE LOADS AS SHOWN IN THE "MOBILE HOME INSTALLATION INSTRUCTIONS".
- IN AREAS WHERE DIFFERENTIAL SETTLEMENT (D.S.) CAN OCCUR, MANUFACTURED HOME SHALL BE READJUSTED WHEN DS EXCEEDS 1/4", OR WHEN IT WILL ADVERSELY AFFECT MOBILE HOME UNIT.
- CARRY ALL FOOTINGS DOWN TO FIRM, UNDISTURBED SOIL. FOOTINGS ARE DESIGNED FOR 1,000 PSF TOTAL LOAD SOIL PRESSURE, AND SHALL BE COMPATIBLE WITH LOCAL SOIL CONDITIONS.
- STRUCTURAL STEEL: FABRICATED ACCORDING TO AISC SPECIFICATION, WELD ACCORDING TO AWS SPECIFICATIONS. ELECTRODES-370 PLATES-ASTM A36 BOLTS-S&E OR 5-ASTM A449=ASTM A375.
- THE ABESCO ASSEMBLIES SHOWN ON THIS PAGE SHALL BE LISTED AND LABELED BY CAPITOL ENGINEERING LABS FOR THE FOLLOWING LOADS
ALLOWABLE LOADS:
TUF-1 STANDS
HORIZONTAL 1062#
VERTICAL 5900#
- DURING PRELIMINARY INSPECTION, THE ESTIMATOR SHALL ENSURE THAT MOBILE HOME CHASSIS BEAMS ARE OF STANDARD SECTION EQUAL TO OR GREATER THAN W10x10#
- EXISTING COACHES MAY BE RETROFITTED TO RESIST SEISMIC FORCES BY INSTALLING TUF-1 UNITS AS SHOWN ON SHEET 3 AND THE TYPICAL FOUNDATION PLAN.
- THE TUF-1 SYSTEMS ARE SAFE FOR INSTALLATION IN FLOOD PLAIN AREAS WHERE DEPTH OF FLOODING DOES NOT EXCEED THE HEIGHT OF THREE FEET.
- MULTIPLE UNIT INSTALLATION IS ACCEPTABLE PROVIDED THE NUMBER OF TUF-1 UNITS MEET THE REQUIREMENTS SHOWN ON SHEET 3 AND THE PLACEMENT AND INSTALLATION PROCEDURES ARE FOLLOWED PROPERLY.
- FOR LONG DURATION SNOW LOADS, USE APPROPRIATE NUMBER OF TUF-1 UNITS AS SHOWN ON SHEET 3.
- ALL METAL COMPONENTS AND ATTACHMENTS ITEMS SHALL BE PROTECTIVE COATED.
- USE 1 1/8" EXTERIOR PLYWOOD WITH WOLMANIZED TREATMENT TO 04. MAX PCF RETENTION WITH DRYING AFTER TREATMENT
- SINGLE WIDE UNITS REQUIRE 4 E-Z TIE PADS-ONE ON EACH CORNER OF THE HOME. (SEE SHEET #3). HOMES WITH 2 OR MORE MODULE UNITS DO NOT REQUIRE THE E-Z TIE PADS.

EARTHQUAKE TUF-1 RESISTANT BRACING SYSTEM

SINGLE WIDE HOME *
E= 2' MIN. / 11' MAX.
S= 6' MIN. / 22' MAX.
DOUBLE/MULTIPLE HOMES *
E= 2' MIN. / 11' MAX.
S= 6' MIN. / 22' MAX.



*NOTE:
PLACE TUF-1'S IN ROWS AT SPACING SHOWN
2 - EACH SINGLE WIDE
4 - EACH DOUBLE WIDE
6 - EACH TRIPLE WIDE

STATE APPROVAL

MOBILEHOME EARTHQUAKE BRACING SYSTEM CERTIFICATION

THIS SYSTEM IS CERTIFIED AS BEING LISTED & APPROVED BY A DEPARTMENT APPROVED LISTING OR TESTING AGENCY PURSUANT TO THE C.A.C. TITLE 26 CHAPTER 2 CERTIFICATION OF DESIGNATION OR APPROVE ANY OMISSION OF APPLICABLE STATE LAWS OR REQUIREMENTS OF APPLICABLE STATE LAWS OR REGULATIONS.

STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS & EMPLOYMENT RELATIONS

DEPARTMENT OF INDUSTRIAL RELATIONS & EMPLOYMENT RELATIONS
BY 7/21/15 DATE 5/15/17
EXPIRES

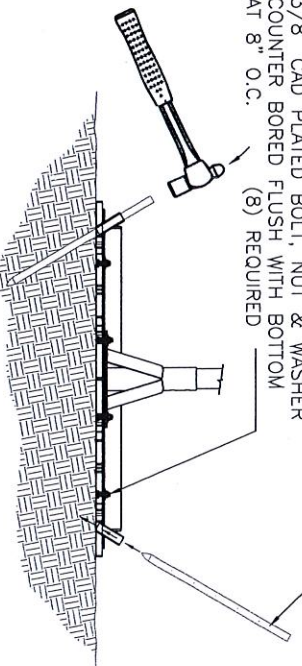
ABESCO

5851 FLORIN-PERKINS ROAD
SACRAMENTO, CA 95828
PH: (800)-382-8831
FAX: (916) 383-5207

CAPITOL ENGINEERING LAB LISTING No. CEL 001 SHEET 1 of 3

e mail....abesco1@live.com

1 1/16" STEEL RODS w/ 3/16" HOLES
@ 1 1/2" C.C.. HOLES ARE OFFSET 90°
3/8" CAD PLATED BOLT, NUT & WASHER
COUNTER BORED FLUSH WITH BOTTOM
AT 8" O.C. (8) REQUIRED



LIGHT HEAVY-WEIGHT
PLASTIC PAD INSTALLATION

MULTI-WIDE UNITS

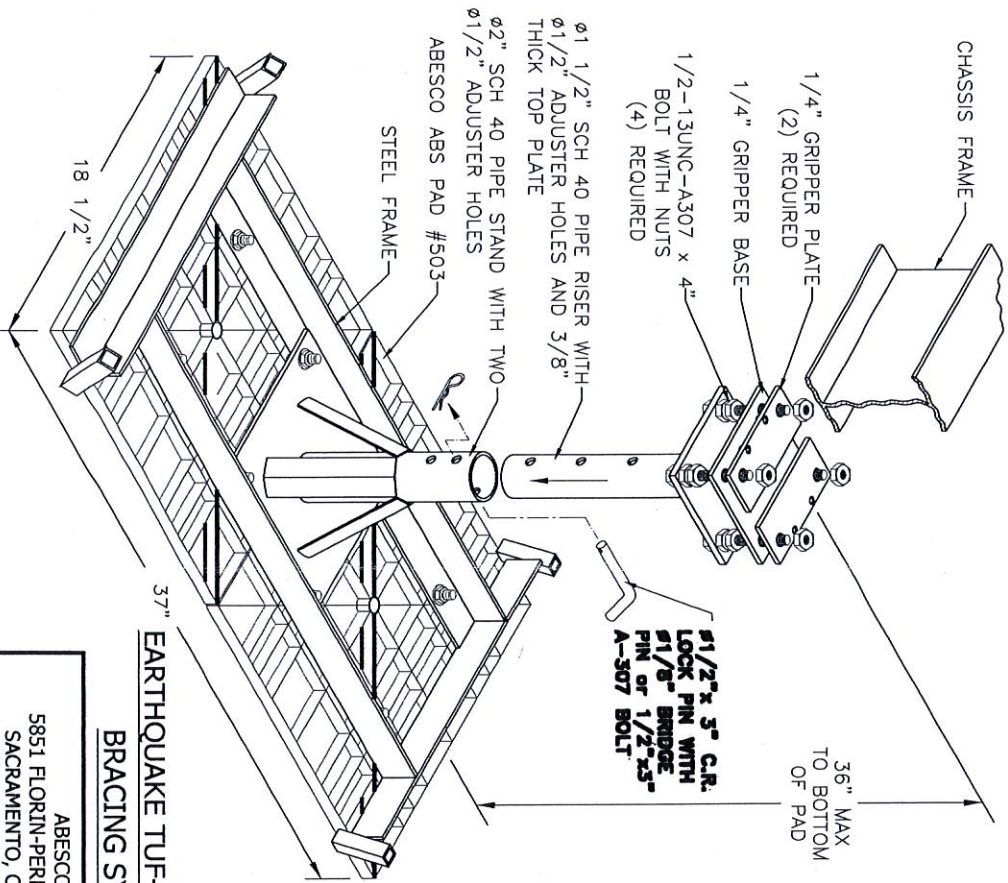
LENGTH OF HOME	WIDTH OF TWO SECTION HOMES UP TO 24'	26'	34'	48'	WIDTH OF THREE SECTION HOMES UP TO 48'
UP TO 46'	8	8	8	12	12
46'-1" TO 66'	12	12	12	18	18
OVER 66'	16	16	16	22	22

NUMBER OF TUF-1 REQUIRED

SINGLE WIDE UNITS

LENGTH OF HOME	10'	12'	14'	16'
UP TO 46'	6	6	6	6
46'-1" TO 66'	8	8	8	8
OVER 66'	10	10	10	10

NUMBER OF TUF-1 REQUIRED



EARTHQUAKE TUF-1 RESISTANT
BRACING SYSTEM

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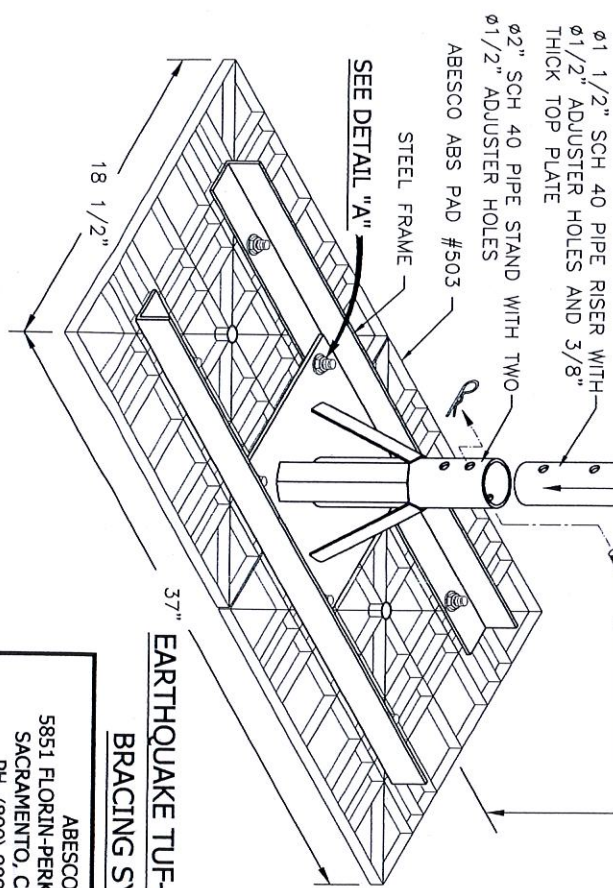
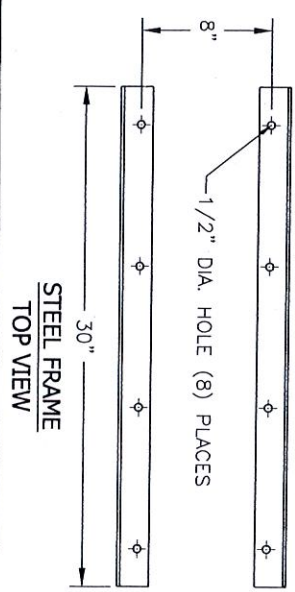
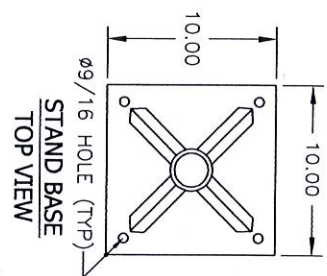
STATE OF CALIFORNIA
DIVISION OF HOUSING & COMMUNITY DEVELOPMENT
DATE 7/12/15 5/15/17
EXPIRES

2" x 2" x 1/8" STEEL ANGLE
3/8" CAD PLATED BOLT, NUT & WASHER COUNTER BORED FLUSH WITH BOTTOM AT 8" O.C. (8) REQUIRED
1/4" STAND BASE
ABESCO ABS PAD #503

DETAIL "A"

CHASSIS FRAME
1/4" GRIPPER PLATE (2) REQUIRED
1/4" GRIPPER BASE
1/2"-13UNC-A307 x 4" BOLT WITH NUTS (4) REQUIRED
36" MAX TO BOTTOM OF PAD
1/2" x 3" C.R. LOCK PIN WITH 1/8" BRIDGE PIN or 1/2" x 3" A-307 BOLT

COACH "C" FRAME
2" CHANNEL
1/4" x 1-1/4" TEK STS (2) REQUIRED
1/4" GRIPPER BASE
1/2" A307 BOLT (2) REQUIRED
3/8" x 6" x 6" STEEL PLATE
1/2" A307 BOLT (2) REQUIRED
C-BEAM ATTACHMENT
1/4" GRIPPER PLATE
COACH "J" FRAME
1/4" x 1-1/4" TEK STS (4) REQUIRED
1/4" GRIPPER BASE
1/2" A307 BOLT (4) REQUIRED
J-BEAM ATTACHMENT



STATE APPROVAL

MOBILE HOME EARTHQUAKE BRACING SYSTEM CERTIFICATION

THIS SYSTEM IS CERTIFIED AS BEING LISTED & APPROVED BY A DEPARTMENT APPROVED LISTING OR TESTING AGENCY PURSUANT TO THE C.A.C. TITLE 25 CHAPTER 2. CERTIFICATION DOES NOT AUTHORIZE OF APPROVE ANY OMISSION OF DEVIATION FROM REQUIREMENTS OF APPLICABLE STATE LAWS OR REGULATIONS.

STATE OF CALIFORNIA
DEPARTMENT OF HOUSING & COMMUNITY DEVELOPMENT
DIVISION OF CODES & STANDARDS

BY [Signature] 5/15/17
DATE 5/15/17
EXPIRES

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